

The Kirloskar logo is positioned in the top right corner. It features the brand name 'Kirloskar' in a white, cursive script font, set against a dark blue background that transitions into a lighter blue gradient at the bottom.

KIRLOSKAR ELECTRIC RAVI SERIES

Standard and IE2 Efficiency Cage Motors





RAVI SERIES

STANDARD AND IE2 EFFICIENCY CAGE MOTORS

Kirloskar Electric Co. Ltd.

Kirloskar Electric Company is a premier electrical equipment manufacturer in India since 1946. Has eight manufacturing units located at Govenahalli, Hubballi, Gabbur, Tumakuru, Budihal, Mysuru, Hawrah and Kondhapuri. Range of products consists of AC Motors, AC Generators, DC Machines, Transformers, Switchgears and Projects and Systems.

Kirloskar Electric at Hubli manufacturers a wide range of Three Phase AC Induction Motors, such as - standard, increased safety, Non Sparking, Flame proof, Crane Duty and Special application motors.

INTRODUCTION:

Electric Motors are the most important type of electric load in every industry. The motor driven systems account for about 70% of the energy consumed by the industry. There is a large potential for cost effective solution in the use of energy efficient motor systems by about 20% to 30%.

Energy efficient motors form a major component in contributing to the energy saving.

PRODUCT:

Ravi series is the new range of Low voltage Cage Motors from Kirloskar Electric in compliance with IS/IEC 60034-1. These motors are compact, reliable and robust in nature and embody the unrivalled experience of Kirloskar Electric in the manufacture of Electric motors for diverse applications.

GOVERNING STANDARDS:

Performance	:	IS/IEC 60034-1
Output and Dimension	:	IS 1231 and IS 2223
Degree of Protection	:	IS/IEC 60034-5
Cooling	:	IS 6362
Noise Level	:	IS 12065
Vibration Level	:	IS 12075
Efficiency	:	IS 12615-2011

SPECIFICATION:

Frame & Output (KW)	:	0.37KW to 200KW
Input Voltage (V)	:	415V ± 10%
Frequency (HZ)	:	50 HZ ± 5%
Combined Variations	:	10%
Ambient Temp	:	50° C
Duty	:	S1
Insulation	:	Class F
Temperature Rise	:	Class B
Protection	:	IP 55
Cooling	:	IC 411

APPLICATION:

Motors are ideal for various industrial applications like:

- Pumps
- Compressors
- Fans
- Crushers
- Machine Tools
- Textiles
- Conveyors

FEATURES:

- Motors with Cast Iron Body from 63 to 355 frame
- Design With Top Terminal Box as standard.
- Side terminal box option available.
- Terminal box position can be changed at site.
- Provision for Dual mounting wherever applicable.
- Design With Bolt Arrangement which gives more rigidity
- Sealed bearing arrangement for frames 63 to 225.
- Large terminal boxes with sufficient electrical clearances and improved aesthetics.
- Optimum fan design for better Cooling & minimum energy consumption.
- Motors are tough, reliable and long lasting.
- Motors to suit for customized duty cycle.

PRODUCT OPTIONAL'S:

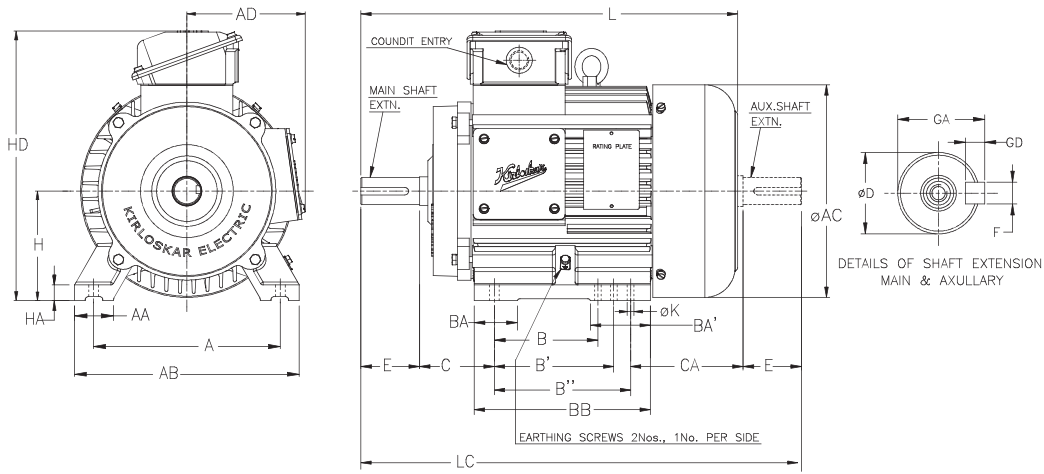
- Foot or Flange or Foot cum Flange Mounting.
- Single or Double Shaft Extensions.
- Supply Voltages of 220/380/400/415/440/690V.
- Supply Frequency 50 or 60 HZ.
- Class H insulation, Motors with brake / suitable brake mounting, motors suitable for Encoder mounting
- Output other than those specified in rating chart.
- Thermistors from Frame Size 63 & above.
- Space heaters from Frame Size 180 & above.

WHEN YOU ORDER,

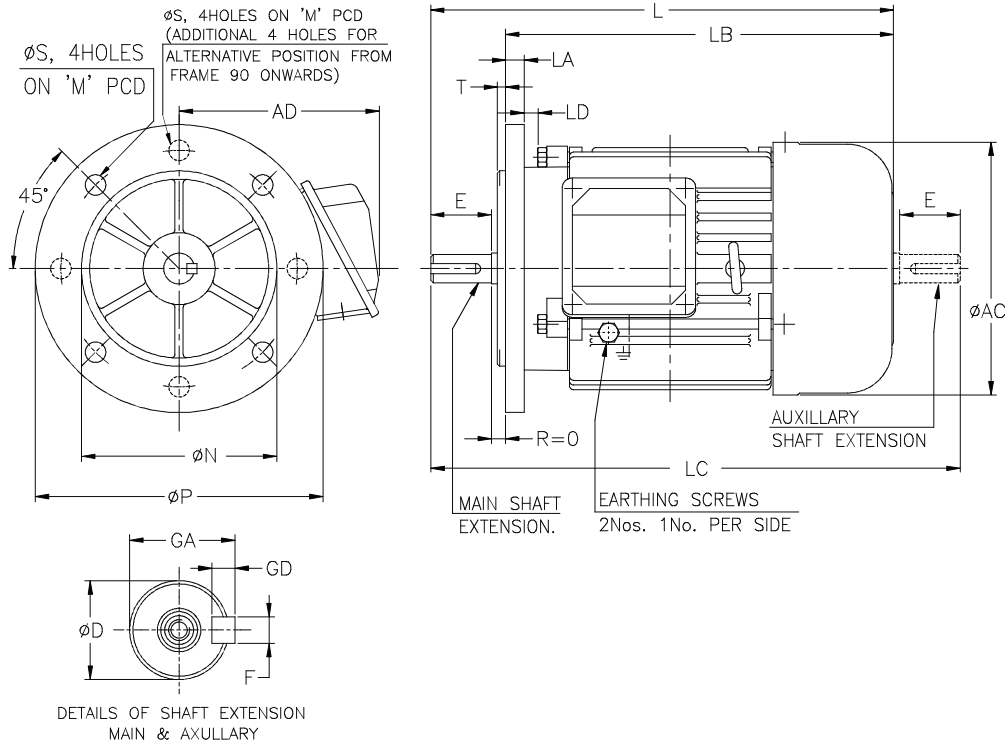
PLEASE FURNISH:

- | | |
|---|------------------------|
| ● Application | ● Mounting |
| ● Ambient temperature | ● Load GD ² |
| ● Input Supply conditions & % variation | ● Method of starting |

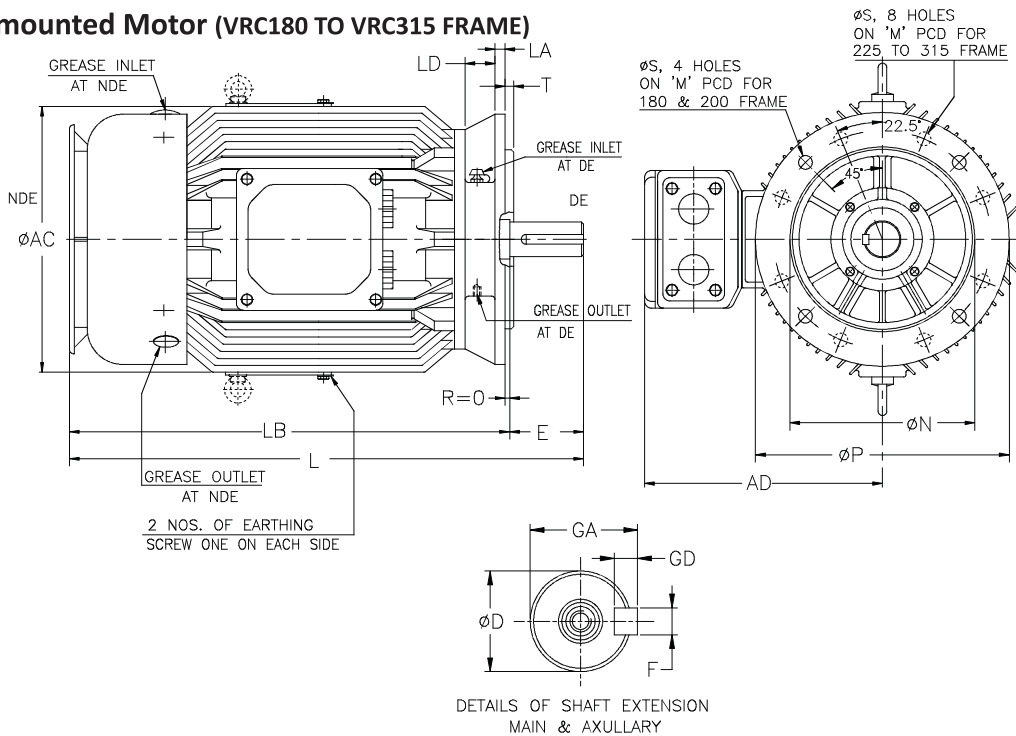
Foot mounted Motor (RC63 TO RC315 FRAME)



Flange mounted Motor (BRC63 TO BRC160 FRAME)



Flange mounted Motor (VRC180 TO VRC315 FRAME)





Dimensions for RC63 to RC315 (FOOT)

SLNo.	FRAME	POLE	A	AA	AB	∅AC	AD	B	B'	BA	BB	C	CA	D	E	F	GA	GD	H	HA	HD	∅K	L	LC	
01	RC63	2, 4, 6, 8	100	25	125	123	75	80	--	23	96	40	72	11	23	4	12.5	4	63	8	175	7	210	238	
02	RC71		112	25	137	140	83	90	--	28	106	45	70	14	30	5	16	5	71	8	190	7	233	265	
03	RC80		125	30	155	156	95	100	--	32	120	50	80	19	40	6	21.5	6	80	10	208	10	270	310	
04	RC90SL		140	35	175	178	101	100	125	45	145	56	87	24	50	8	27	7	90	13	225	10	318	368	
06	RC100L		160	40	200	193	110	140	--	40	170	63	99	28	60	8	31	7	100	15	270	12	360	422	
07	RC112M		190	40	230	218	115	140	--	40	180	70	115	28	60	8	31	7	112	16	295	12	385	445	
08	RC132SM		216	40	256	260	145	140	178	74	218	89	137	38	80	10	41	8	132	17	320	12	480	564	
10	RC160ML		254	60	314	310	180	210	254	95	314	108	167	42	110	12	45	8	160	25	405	15	640	749	
12	RC180ML		279	64	330	381	200	241	279	100	330	121	205	48	110	14	51.5	9	180	28	525	15	717	825	
14	RC200L		318	90	390	431	230	305	--	80	355	133	225	55	110	16	59	10	200	34	575	19	775	883	
15	RC225SM		2	356	76	444	490	270	286	311	90	356	149	253	55	110	16	59	10	225	34	628	19	825	933
			4,6,8												60	140	18	64	11					855	993
16	RC250SM		2	406	90	500	535	310	311	349	125	419	168	273	60	140	18	64	11	250	42	750	24	920	1070
			4,6,8												65		18	69	11						
17	RC280SM	2	457	100	550	580	350	368	419	126	490	190	297	65	140	18	69	11	280	42	800	24	1035	1185	
		4,6,8												75		20	79.5	12							
18	RC315SM	2	508	120	630	640	410	406	457	150	730	216	352	65	140	18	69	11	315	44	950	28	1155	1305	
		4,6,8												80	170	22	85	14					1185	1365	
19	RC315L & RC315LX	2	508	120	630	640	410	508	--	170	730	216	352	65	140	18	69	11	315	44	950	28	1475	1670	
		4,6,8												80	170	22	85	14					1505	1700	
		2												70	140	20	74.5	12					1475	1670	
		4,6,8												90	170	25	95	14					1505	1700	

Dimensions for BRC63 to BRC160 (FLANGE)

SLNo.	FRAME	D	E	F	L	LC	M	∅N	∅P	∅S	T	∅AC	AD	GA	GD	LA	LB	LD
01	BRC63	11	23	4	210	238	115	95	140	10	3.0	123	110	12.5	4	9	187	--
02	BRC71	14	30	5	233	265	130	110	160	10	3.5	140	120	16	5	9	203	--
03	BRC80	19	40	6	270	310	165	130	200	12	3.5	156	130	21.5	6	10	230	20
04	BRC90	24	50	8	318	368	165	130	200	12	3.5	178	140	27	7	10	268	24.5
06	BRC100	28	60	8	360	422	215	180	250	15	4.0	193	152	31	7	11	300	24
07	BRC112	28	60	8	385	445	215	180	250	15	4.0	218	170	31	7	11	325	27.5
08	BRC132	38	80	10	480	564	265	230	300	15	4.0	260	192	41	8	12	400	24
10	BRC160	42	110	12	640	749	300	250	350	19	5.0	310	270	45	8	13	530	32

Dimensions for VRC180 to VRC315 (FLANGE)

SLNo.	FRAME	POLE	D	E	F	L	M	∅N	∅P	∅S	T	∅AC	AD	GA	GD	LA	LB	LD
01	VRC180	2, 4, 6, 8	48	110	14	745	300	250	350	19	5.0	380	300	51.5	9	13.5	635	42
02	VRC200		55	110	16	800	350	300	400	19	5.0	430	325	59	10	15	690	45
03	VRC225	2	55	110	16	855	400	350	450	19	5.0	486	355	59	10	16	745	59
		4,6,8	60	140	18	885								64	11			
04	VRC250	2	60	140	18	950	500	450	550	19	5.0	530	490	64	11	18	810	50
		4,6,8	65	140	18									69	11			
05	VRC280	2	65	140	18	1070	500	450	550	19	5.0	575	500	69	11	22	930	65
		4,6,8	75	140	20									79.5	12			
06	VRC315	2	65	140	18	1320	600	550	660	24	6.0	720	605	69	11	24	1180	58
		4,6,8	80	170	22									85	14			



STANDARD MOTORS

PERFORMANCE CHART TEFC, 3 PHASE STANDARD CAGE INDUCTION MOTORS 415V±10%, 50Hz±5%, Combined Variation ±10%, 50°C Ambient, Class F Insulation IP55/IC411, Temperature rise : 70°C, Duty : S1

FRAME	OUTPUT	FLS	FLC	LRC	LRT	PUT	POT	%SLIP		%EFFICIENCY			POWER FACTOR			GD2	STALL TIME		
	(kW)	(rpm)	(Amps)	(pu)	(pu)	(pu)	(pu)	PUT	POT	F.L.	3/4	1/2	F.L.	3/4	1/2	(kg-m2)	Cold	Hot	
2 POLE	63	0.12	2750	0.34	5.0	2.50	2.0	2.75	90	55	64.0	57.0	49.0	0.76	0.65	0.50	0.00081	20	12
	63	0.18	2750	0.52	4.5	2.50	2.0	2.75	90	55	64.0	58.0	50.0	0.76	0.65	0.50	0.00081	20	12
	63	0.25	2720	0.68	4.5	2.50	2.0	2.75	90	55	67.0	60.0	52.0	0.76	0.65	0.50	0.00081	20	12
	71	0.37	2780	0.92	6.0	2.75	2.2	2.75	90	45	70.0	70.0	67.0	0.80	0.77	0.67	0.0026	20	12
	71	0.55	2780	1.37	5.0	2.75	2.2	2.75	90	45	70.0	70.0	67.0	0.80	0.69	0.60	0.0026	20	12
	80	0.75	2800	1.61	6.0	2.75	2.2	2.75	90	45	77.0	77.0	74.0	0.84	0.78	0.66	0.0027	20	12
	80	1.1	2820	2.37	6.0	2.75	2.2	2.75	90	45	77.0	77.0	74.0	0.84	0.79	0.66	0.0036	20	12
	90S	1.5	2820	3.10	6.0	2.75	2.4	3.00	90	35	81.0	81.0	79.0	0.84	0.78	0.65	0.0052	18	10
	90L	2.2	2830	4.50	6.0	3.00	2.4	3.00	90	35	81.0	81.0	79.0	0.84	0.78	0.65	0.0068	18	10
	100L	3.7	2830	7.10	6.0	2.50	2.0	2.50	90	35	84.0	84.0	81.0	0.86	0.82	0.73	0.010	18	10
	132S	5.5	2892	10.0	6.5	2.50	2.0	2.75	90	35	85.7	83.0	81.0	0.90	0.88	0.82	0.043	18	10
	132S	7.5	2894	13.3	6.5	2.50	2.0	3.00	90	35	87.0	85.0	81.0	0.90	0.89	0.82	0.052	18	10
	160M	11	2935	19.3	6.5	2.75	2.2	2.75	80	20	88.4	86.0	82.0	0.90	0.88	0.83	0.18	18	10
	160M	15	2935	26.0	6.5	2.75	2.2	2.75	80	20	89.4	88.0	84.0	0.90	0.88	0.81	0.23	18	10
	160L	18.5	2935	31.8	6.5	3.0	2.4	3.0	80	20	90.0	88.0	84.0	0.90	0.87	0.81	0.26	18	10
	180M	22	2945	37.5	6.5	1.8	1.6	2.5	85	10	91.0	90.0	88.0	0.90	0.88	0.86	0.40	20	15
	200L	30	2945	50.2	6.5	2.2	1.8	2.5	85	10	91.4	90.0	88.0	0.91	0.88	0.84	0.75	20	15
	200L	37	2945	61.5	6.5	2.2	1.8	2.5	85	10	92.0	90.0	88.0	0.91	0.90	0.83	0.85	20	15
	225M	45	2950	73.6	6.5	2.1	1.7	2.5	85	10	92.5	90.0	88.0	0.92	0.88	0.83	2.3	25	20
	250M	55	2945	91.0	6.0	1.6	1.3	2.4	85	7.5	93.0	93.0	90.0	0.90	0.88	0.80	3.3	30	20
	280S	75	2955	124.0	6.0	1.5	1.2	2.5	85	6.5	93.6	93.6	91.0	0.90	0.89	0.80	6.5	35	25
	280M	90	2960	148.0	6.0	1.6	1.3	2.8	85	6.0	93.9	93.9	91.5	0.90	0.88	0.80	7.4	35	25
	315S	110	2966	181	6.0	1.6	1.3	2.4	85	5.5	94.0	94.0	91.5	0.90	0.87	0.80	8.0	35	25
	315M	125	2967	204	6.0	1.8	1.4	2.6	85	5.5	94.5	94.5	92.0	0.90	0.88	0.80	9.0	35	25
	315M	135	2970	221	6.0	1.7	1.3	2.6	85	5.5	94.5	94.5	92.0	0.90	0.88	0.80	9.5	35	25
	315L	150	2974	243	6.0	2.0	1.6	2.8	85	5.5	94.5	94.5	93.0	0.91	0.90	0.85	12.0	35	25
	315L	160	2972	258	6.0	2.0	1.6	2.6	85	5.5	95.0	95.0	93.0	0.91	0.90	0.85	12.0	35	25
315L	180	2973	290	6.0	2.0	1.6	2.7	85	5.5	95.0	95.0	93.5	0.91	0.90	0.85	13.0	35	25	
315LX	200	2980	322	6.5	2.0	1.6	2.6	85	5.5	95.0	95.0	93.5	0.91	0.90	0.85	18.0	35	25	
4 POLE	63	0.12	1350	0.45	3.0	2.75	2.2	3.00	90	50	58.0	55.0	50.0	0.64	0.51	0.40	0.00079	30	15
	63	0.18	1350	0.68	3.0	2.75	2.2	3.00	90	50	58.0	55.0	50.0	0.64	0.51	0.40	0.00079	30	15
	71	0.25	1390	0.69	4.0	2.50	2.0	2.75	85	40	70.0	68.0	62.0	0.72	0.60	0.45	0.0026	30	15
	71	0.37	1390	1.02	4.0	2.50	2.0	3.00	85	40	70.0	68.0	62.0	0.72	0.60	0.45	0.0026	30	15
	80	0.55	1390	1.32	5.0	2.50	2.0	2.75	90	40	75.0	75.0	72.0	0.77	0.68	0.53	0.0039	30	15
	80	0.75	1390	1.8	5.0	2.75	2.2	3.00	90	45	75.0	75.0	72.0	0.77	0.68	0.53	0.0053	30	15
	90S	1.1	1400	2.45	5.0	2.50	2.0	2.60	90	40	77.0	77.0	75.0	0.81	0.73	0.61	0.009	25	12
	90L	1.5	1400	3.3	5.0	2.50	2.0	2.75	90	40	78.5	77.0	75.0	0.81	0.73	0.62	0.012	25	12
	100L	2.2	1400	4.7	5.5	2.50	2.0	2.75	90	40	81.0	78.0	74.0	0.81	0.75	0.62	0.016	20	11
	112M	3.7	1430	7.5	6.0	2.75	2.2	3.0	90	33	84.0	84.0	79.0	0.82	0.77	0.65	0.037	20	11
	132S	5.5	1440	11.0	6.0	2.75	2.2	3.0	90	25	85.7	84.0	81.0	0.82	0.77	0.65	0.089	18	10
	132M	7.5	1440	14.3	6.0	2.75	2.2	3.0	90	25	87.0	85.0	83.0	0.84	0.77	0.65	0.116	18	10
	160M	11	1450	21.0	6.0	2.2	2.0	2.3	85	20	88.4	88.0	85.0	0.83	0.79	0.70	0.270	15	9
	160L	15	1450	28.1	6.0	2.2	2.0	2.4	85	20	89.4	88.0	85.0	0.83	0.78	0.69	0.330	15	9
	180M	18.5	1470	33.0	6.5	2.2	2.0	2.5	85	10	91.0	90.5	90.0	0.87	0.82	0.75	0.620	20	15
	180L	22	1470	38.5	6.5	2.1	1.7	2.5	85	10	91.5	91.0	90.0	0.87	0.83	0.75	0.720	20	15
	200L	30	1475	50.4	6.5	2.2	1.6	2.8	85	10	92.0	91.0	90.0	0.90	0.87	0.81	1.70	20	15
	225S	37	1472	62.2	6.5	2.3	1.8	2.5	85	10	92.0	91.5	90.0	0.90	0.86	0.77	2.30	25	20
	225M	45	1472	75.2	6.5	2.2	1.6	2.3	85	10	92.5	91.5	90.0	0.90	0.86	0.77	2.50	25	20
	250M	55	1478	94	6.0	2.0	1.8	2.5	85	7.5	93.5	93.5	92.0	0.87	0.84	0.76	4.40	40	25
	280S	75	1482	128	6.0	2.0	1.8	2.5	85	6.0	93.8	93.8	92.0	0.87	0.84	0.76	7.80	50	25
	280M	90	1482	151	6.0	2.0	1.8	2.5	85	6.5	94.2	94.2	92.5	0.88	0.86	0.80	9.50	50	25
	315S	110	1482	186	6.0	2.0	1.6	2.5	85	6.0	94.5	94.5	93.0	0.87	0.84	0.76	13.0	60	30
	315M	125	1484	211	6.0	2.0	1.6	2.5	85	5.5	94.7	94.7	93.0	0.87	0.85	0.80	14.0	60	30
	315M	135	1483	225	6.0	2.0	1.6	2.5	85	5.5	95.0	95.0	93.0	0.88	0.86	0.80	14.5	60	30
	315L	150	1484	250	6.0	2.0	1.6	2.5	85	5.5	95.0	95.0	93.0	0.88	0.86	0.81	16.5	60	30
	315L	160	1483	267	6.0	2.0	1.6	2.5	85	5.5	95.0	95.0	93.0	0.88	0.86	0.81	16.5	60	30
315L	180	1483	299	6.0	2.0	1.6	2.5	85	5.5	95.2	95.2	93.5	0.88	0.87	0.81	18.0	60	30	
315LX	200	1484	328	6.0	2.0	1.6	2.5	85	5.5	95.3	95.3	93.5	0.89	0.87	0.81	23.0	60	30	
315LX	225	1484	369	6.0	2.0	1.6	2.5	85	5.5	95.3	95.3	93.5	0.89	0.87	0.81	23.0	60	30	

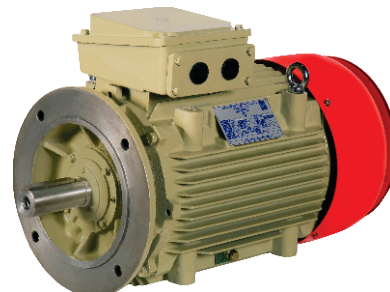
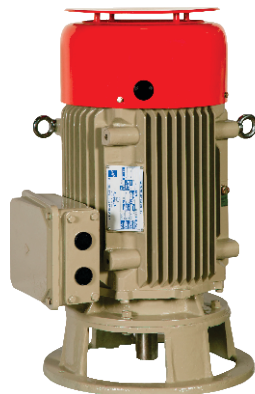
Note : All performance figures are at rated supply conditions and are subject to tolerance as per applicable standards.

STANDARD MOTORS

PERFORMANCE CHART (contd.)

FRAME	OUTPUT	FLS	FLC	LRC	LRT	PUT	POT	%SLIP		%EFFICIENCY			POWER FACTOR			GD2	STALL TIME		
	(kW)	(rpm)	(Amps)	(pu)	(pu)	(pu)	(pu)	PUT	POT	F.L.	3/4	1/2	F.L.	3/4	1/2	(kg-m2)	Cold	Hot	
6 POLE	80	0.37	910	1.20	3.0	2.0	1.6	2.3	90	45	65.0	64.0	57.0	0.67	0.57	0.43	0.0077	36	19
	80	0.55	910	1.61	3.0	2.0	1.6	2.3	90	45	68.0	64.0	58.0	0.70	0.59	0.45	0.0099	36	19
	90S	0.75	910	1.95	4.0	2.0	1.6	2.3	90	35	72.0	70.0	65.0	0.75	0.65	0.55	0.0165	33	13
	90L	1.1	920	2.80	4.0	2.0	1.6	2.3	90	35	74.0	70.0	65.0	0.75	0.65	0.55	0.018	33	13
	100L	1.5	925	3.71	5.0	2.0	1.6	2.3	90	35	76.0	75.0	74.0	0.74	0.67	0.54	0.036	30	11
	112M	2.2	940	5.1	5.0	2.5	2.0	2.8	90	35	80.0	79.0	74.0	0.75	0.67	0.54	0.061	30	11
	132S	3.7	950	7.7	6.0	2.0	1.6	2.5	85	25	84.0	83.0	81.0	0.80	0.74	0.62	0.116	30	11
	132M	5.5	950	11.3	6.0	2.0	1.6	2.5	85	25	85.0	84.0	81.0	0.80	0.74	0.62	0.158	30	11
	160M	7.5	960	14.6	6.0	2.2	1.8	2.5	90	20	86.0	86.0	85.0	0.83	0.78	0.65	0.39	27	10
	160L	11	960	21.0	6.0	2.2	1.8	2.5	90	20	87.5	86.0	85.0	0.84	0.78	0.65	0.50	27	10
	180L	15	970	29.0	6.0	1.8	1.6	2.0	80	15	89.0	89.0	88.5	0.82	0.78	0.74	0.75	20	15
	200L	18.5	970	34.0	6.0	2.0	1.8	2.4	80	15	90.5	90.5	88.5	0.84	0.80	0.72	1.50	20	15
	200L	22	970	40.3	6.0	2.0	1.8	2.5	80	15	90.5	90.0	88.5	0.84	0.80	0.72	1.75	20	15
	225M	30	970	53.3	6.0	2.0	1.8	2.2	80	15	91.0	90.5	88.5	0.86	0.83	0.78	2.50	20	15
	250M	37	983	65.0	6.0	1.8	1.6	2.5	80	8.0	92.3	92.3	90.8	0.86	0.82	0.74	5.10	50	30
	280S	45	985	79.0	6.0	2.2	1.8	2.5	80	7.5	92.5	92.5	91.0	0.86	0.82	0.74	8.00	60	35
	280M	55	985	96.0	6.0	2.2	1.8	2.5	80	7.5	93.0	93.0	91.5	0.86	0.82	0.74	9.30	60	35
	315S	75	988	130	6.0	2.1	1.7	2.8	80	7.0	93.5	93.5	91.5	0.86	0.82	0.74	15.5	60	35
	315M	90	988	155	6.0	2.1	1.7	2.8	80	7.0	94.0	94.0	92.5	0.86	0.82	0.74	17.5	60	35
	315M	110	988	186	6.0	2.1	1.7	2.7	80	7.0	94.5	94.5	93.0	0.87	0.82	0.75	20.0	60	35
315L	125	987	212	6.0	2.1	1.7	2.7	80	7.0	94.5	94.5	93.0	0.87	0.83	0.75	22.0	60	35	
315L	135	988	229	6.0	2.1	1.7	2.5	80	7.0	94.5	94.5	93.0	0.87	0.83	0.75	23.5	60	35	
315LX	150	987	257	6.0	2.0	1.6	2.5	80	7.0	94.5	94.5	93.0	0.86	0.83	0.75	27.0	40	20	
315LX	160	986	277	6.0	1.8	1.4	2.3	80	7.0	94.5	94.0	93.0	0.85	0.83	0.75	34.0	40	20	
8 POLE	90S	0.37	670	1.30	3.5	1.8	1.45	2.0	95	40	62.0	52.0	47.0	0.65	0.52	0.41	0.014	45	20
	90L	0.55	670	1.80	3.5	1.8	1.45	2.0	95	40	67.0	60.0	57.0	0.63	0.50	0.39	0.018	45	20
	100L	0.75	690	2.00	3.5	1.8	1.45	1.8	95	35	70.0	65.0	58.0	0.73	0.61	0.44	0.027	45	20
	100L	1.1	690	2.91	3.5	1.7	1.35	1.9	95	35	72.0	70.0	65.0	0.73	0.61	0.44	0.035	45	20
	112M	1.5	700	3.76	4.5	1.9	1.50	2.0	95	33	75.0	75.0	72.0	0.74	0.61	0.45	0.061	45	20
	132S	2.2	710	5.40	5.0	1.7	1.35	2.2	95	33	77.0	74.0	70.0	0.74	0.63	0.47	0.106	30	15
	160M	3.7	710	8.25	5.0	1.7	1.50	1.9	90	20	81.0	79.0	72.0	0.77	0.72	0.61	0.35	30	15
	160M	5.5	710	12.0	5.0	1.8	1.50	2.0	90	20	83.0	83.0	83.0	0.77	0.72	0.61	0.44	30	15
	160L	7.5	710	16.1	5.0	1.8	1.50	1.8	90	20	84.0	83.0	83.0	0.77	0.72	0.61	0.58	30	15
	180L	11	725	23.5	6.0	1.8	1.50	2.0	80	20	88.0	88.0	87.0	0.74	0.68	0.57	0.75	20	15
	200L	15	730	30	6.0	1.8	1.50	2.0	80	20	89.0	89.0	88.0	0.78	0.74	0.64	1.65	20	15
	225S	18.5	735	37	6.0	1.8	1.50	2.0	80	20	90.0	90.0	88.0	0.78	0.74	0.64	2.30	20	15
	225M	22	735	44	6.0	1.8	1.50	2.0	80	20	90.0	90.0	88.0	0.78	0.74	0.64	2.50	20	15
	250M	30	736	59	6.0	1.8	1.50	2.5	80	8.5	91.5	90.5	87.0	0.78	0.70	0.58	5.80	80	40
	280S	37	738	73	6.0	2.0	1.60	2.4	80	7.5	92.0	91.0	88.0	0.77	0.70	0.57	9.50	80	40
	280M	45	740	89	6.0	2.0	1.60	2.5	80	7.5	92.0	91.0	88.0	0.77	0.70	0.57	11.5	80	40
	315S	55	740	106	6.0	2.0	1.60	2.5	80	6.5	92.5	91.5	88.5	0.78	0.72	0.60	15.5	90	50
315M	75	740	152	6.0	1.8	1.40	2.4	80	7.0	92.8	92.3	89.0	0.74	0.67	0.56	18.5	90	50	
315L	90	740	180	6.0	2.1	1.60	2.5	80	7.0	93.0	92.8	89.0	0.75	0.68	0.57	23.5	90	50	
315L	110	738	213	6.0	1.8	1.50	2.1	80	7.5	93.5	93.5	92.0	0.77	0.71	0.62	26.0	60	30	

Note : All performance figures are at rated supply conditions and are subject to tolerance as per applicable standards.



Flange Motor



IE - 2 MOTORS

PERFORMANCE CHART

TEFC, 3 PHASE IE2 EFFICIENCY CAGE INDUCTION MOTORS

415V±10%, 50Hz±5%, Combined Variation ±10%, 50°C Ambient, Class F Insulation

IP55/IC411, Temperature rise : 70°C, Duty : S1

	FRAME	OUTPUT	FLS	FLC	LRC	LRT	PUT	POT	%EFFICIENCY			POWER FACTOR			GD2	STALL TIME	
		(kW)	(rpm)	(Amps)	(pu)	(pu)	(pu)	(pu)	F.L.	3/4	1/2	F.L.	3/4	1/2	(kg-m ²)	Cold	Hot
2 POLE	71	0.37	2800	0.9	5.0	2.80	2.6	3.0	72.2	72.2	66.0	0.82	0.76	0.60	0.0026	15	10
	71	0.55	2800	1.2	5.0	2.80	2.6	3.0	74.8	74.8	70.0	0.82	0.76	0.60	0.0026	15	10
	80	0.75	2810	1.6	6.0	2.80	2.6	3.0	77.4	77.4	72.0	0.84	0.76	0.60	0.0027	15	10
	80	1.1	2820	2.3	6.0	2.80	2.6	3.0	79.6	79.6	76.0	0.84	0.78	0.68	0.0036	15	10
	90S	1.5	2830	3.0	6.0	2.75	2.5	3.0	81.3	81.3	78.0	0.87	0.78	0.70	0.0052	18	12
	90L	2.2	2830	4.2	6.0	2.80	2.6	3.0	83.2	83.2	80.0	0.87	0.78	0.70	0.0068	18	12
	100L	3.7	2845	6.9	7.0	3.00	2.8	3.2	85.5	85.5	82.0	0.87	0.84	0.76	0.010	18	12
	132S	5.5	2895	9.8	7.0	2.50	2.3	3.0	87.0	87.0	84.0	0.90	0.88	0.84	0.043	18	12
	132S	7.5	2900	13.2	7.0	2.50	2.3	3.0	88.1	88.1	86.0	0.90	0.88	0.84	0.052	18	12
	160M	9.3	2925	16.2	7.0	2.50	2.3	3.0	88.9	88.9	86.0	0.90	0.88	0.84	0.18	18	12
	160M	11.0	2935	19.0	7.0	2.50	2.3	2.8	89.4	89.4	86.0	0.90	0.88	0.84	0.18	18	12
	160M	15.0	2935	26	7.0	2.75	2.4	3.0	90.3	90.3	88.0	0.90	0.88	0.84	0.23	18	12
	160L	18.5	2935	31	7.0	3.00	2.6	3.0	90.9	90.9	88.0	0.90	0.88	0.84	0.26	18	12
	180M	22	2945	37	7.0	2.00	1.8	2.8	91.3	91.3	88.0	0.90	0.88	0.84	0.40	20	15
	200L	30	2950	50	7.0	2.50	2.3	3.0	92.0	92.0	88.0	0.90	0.88	0.84	0.75	20	15
	200L	37	2950	62	7.0	2.50	2.3	3.2	92.5	92.5	90.0	0.90	0.88	0.82	0.85	20	15
	225M	45	2950	75	7.0	2.30	2.0	2.8	92.9	92.9	90.0	0.90	0.88	0.82	2.3	25	20
	250M	55	2955	91	7.0	2.20	2.0	2.5	93.2	93.2	90.0	0.90	0.88	0.82	3.3	30	20
	280S	75	2960	124	7.0	2.00	1.8	2.5	93.8	93.8	91.0	0.90	0.88	0.82	6.5	35	25
	280M	90	2960	148	7.0	1.80	1.6	2.5	94.1	94.1	91.0	0.90	0.88	0.82	7.4	35	25
315S	110	2962	180	7.0	1.80	1.6	2.6	94.3	94.3	89.7	0.90	0.87	0.80	8.0	35	25	
315M	125	2967	204	7.0	1.80	1.6	2.6	94.5	94.5	90.2	0.90	0.88	0.80	9.0	35	25	
315M	132	2967	216	7.0	1.80	1.6	2.6	94.6	94.6	90.2	0.90	0.88	0.80	9.5	35	25	
315L	160	2967	261	7.0	1.80	1.6	2.6	94.8	94.8	91.2	0.90	0.88	0.80	12.0	35	25	
4 POLE	71	0.37	1392	1.0	5.0	2.6	2.4	2.75	70.1	70.1	68.0	0.74	0.64	0.50	0.0026	18	10
	80	0.55	1392	1.4	5.0	2.6	2.4	2.75	75.1	75.1	70.0	0.75	0.68	0.54	0.0039	18	10
	80	0.75	1392	1.7	5.0	2.6	2.4	2.75	79.6	79.6	74.0	0.75	0.68	0.54	0.0053	18	10
	90S	1.1	1400	2.4	5.0	2.5	2.3	2.50	81.4	81.4	78.0	0.80	0.72	0.56	0.009	18	10
	90L	1.5	1405	3.2	5.0	2.6	2.4	2.75	82.8	82.8	80.0	0.80	0.72	0.56	0.012	18	10
	100L	2.2	1415	4.5	6.0	3.0	2.8	3.30	84.3	84.3	82.0	0.80	0.74	0.64	0.016	18	10
	112M	3.7	1430	7.3	6.0	2.5	2.3	2.75	86.3	86.3	84.0	0.82	0.76	0.64	0.037	18	10
	132S	5.5	1440	10.6	6.5	2.3	2.1	2.60	87.7	87.7	85.0	0.82	0.76	0.66	0.089	18	10
	132M	7.5	1450	14.0	6.5	2.5	2.3	3.00	88.7	88.7	86.0	0.84	0.76	0.66	0.116	18	10
	160M	9.3	1452	17.2	6.5	2.4	2.2	3.00	89.3	89.3	86.0	0.84	0.82	0.72	0.27	18	10
	160M	11.0	1454	20.3	6.5	2.4	2.2	3.00	89.8	89.8	87.0	0.84	0.82	0.74	0.27	18	10
	160L	15.0	1455	27.1	7.0	2.2	2.0	2.80	90.6	90.6	88.0	0.85	0.82	0.74	0.33	18	10
	180M	18.5	1472	33	7.0	2.4	2.2	3.00	91.2	91.2	89.0	0.85	0.82	0.75	0.62	20	15
	180L	22	1472	38	6.5	2.2	2.0	2.75	91.6	91.6	89.0	0.87	0.82	0.75	0.72	20	15
	200L	30	1475	50	6.5	2.2	2.0	2.8	92.3	92.3	90.0	0.90	0.88	0.80	1.7	20	15
	225S	37	1474	62	6.5	2.5	2.3	2.7	92.7	92.7	90.0	0.90	0.88	0.80	2.3	25	20
	225M	45	1474	75	6.5	2.5	2.3	2.7	93.1	93.1	91.0	0.90	0.88	0.80	2.5	25	20
	250M	55	1480	94	7.0	2.3	2.1	2.8	93.5	93.5	91.0	0.87	0.84	0.80	4.4	40	25
	280S	75	1482	128	7.0	2.0	1.8	3.0	94.0	94.0	92.0	0.87	0.84	0.80	7.8	50	25
	280M	90	1483	153	7.0	2.2	2.0	3.0	94.2	94.2	92.0	0.87	0.84	0.80	9.5	50	25
315S	110	1482	186	7.0	2.2	2.0	3.0	94.5	94.5	91.2	0.87	0.84	0.76	13.0	60	30	
315M	125	1483	211	7.0	2.0	1.6	2.5	94.6	94.6	91.2	0.87	0.85	0.80	14.0	60	30	
315M	132	1483	220	7.0	2.3	2.1	3.0	94.7	94.7	91.2	0.88	0.86	0.80	14.5	60	30	
315L	160	1483	267	7.0	2.5	2.3	3.0	94.9	94.9	91.2	0.88	0.86	0.81	16.5	60	30	
6 POLE	80	0.37	915	1.1	5.0	2.2	2.0	2.4	69.0	69.0	65.0	0.65	0.56	0.46	0.0070	20	12
	80	0.55	915	1.5	5.0	2.2	2.0	2.4	72.9	72.9	68.0	0.70	0.58	0.46	0.0099	20	12
	90S	0.75	915	1.9	5.0	2.2	2.0	2.4	75.9	75.9	70.0	0.74	0.66	0.54	0.0165	20	12
	90L	1.1	920	2.6	5.0	2.2	2.0	2.3	78.1	78.1	72.0	0.75	0.66	0.56	0.018	20	12
	100L	1.5	935	3.5	5.0	2.0	1.6	2.3	79.8	79.8	74.0	0.75	0.66	0.56	0.036	20	12
	112M	2.2	940	4.9	5.5	2.3	2.1	2.3	81.8	81.8	78.0	0.76	0.68	0.56	0.061	20	12
132S	3.7	950	7.6	5.5	2.3	2.1	2.5	84.3	84.3	80.0	0.80	0.72	0.60	0.116	20	12	

Note : All performance figures are at rated supply conditions and are subject to tolerance as per applicable standards.



IE - 2 MOTORS

PERFORMANCE CHART (contd.) TEFC, 3 PHASE IE2 EFFICIENCY CAGE INDUCTION MOTORS

6 POLE	OUTPUT	FLS	FLC	LRC	LRT	PUT	POT	%EFFICIENCY			POWER FACTOR			GD2	STALL TIME		
	FRAME	(kW)	(rpm)	(Amps)	(pu)	(pu)	(pu)	(pu)	F.L.	3/4	1/2	F.L.	3/4	1/2	(kg-m ²)	Cold	Hot
	132M	5.5	954	11.1	6.0	2.4	2.2	2.6	86.0	86.0	83.0	0.80	0.74	0.60	0.158	20	12
160M	7.5	965	14.4	6.0	2.4	2.2	2.6	87.2	87.2	85.0	0.83	0.76	0.65	0.39	20	12	
160L	9.3	965	17.7	6.0	2.2	2.0	2.5	88.1	88.1	85.0	0.83	0.76	0.65	0.50	20	12	
160L	11.0	965	20.5	6.0	2.2	2.0	2.5	88.7	88.7	86.0	0.84	0.78	0.65	0.50	20	12	
180L	15.0	970	28.4	6.0	1.8	1.6	2.2	89.7	89.7	87.0	0.82	0.77	0.73	0.75	20	15	
200L	18.5	971	34	6.0	2.2	2.0	2.4	90.4	90.4	88.0	0.84	0.80	0.72	1.50	20	15	
200L	22	970	41	6.0	2.0	1.8	2.5	90.9	90.9	88.0	0.83	0.80	0.72	1.75	20	15	
225M	30	974	54	6.0	2.0	1.8	2.2	91.7	91.7	90.0	0.84	0.82	0.76	2.5	20	15	
250M	37	983	65	6.5	1.8	1.6	2.5	92.2	92.2	90.0	0.86	0.82	0.76	5.1	50	30	
280S	45	985	79	6.5	2.4	2.2	2.8	92.7	92.7	90.0	0.86	0.82	0.76	8.0	60	35	
280M	55	985	96	6.0	2.2	2.0	2.5	93.1	93.1	91.0	0.86	0.82	0.76	9.3	60	35	
315S	75	986	129	7.0	2.4	2.2	2.8	93.7	93.7	89.7	0.86	0.82	0.74	15.5	60	35	
315M	90	987	155	7.0	2.4	2.2	2.7	94.0	94.0	90.7	0.86	0.82	0.74	17.5	60	35	
315M	110	987	189	7.0	2.4	2.2	2.7	94.3	94.3	91.2	0.86	0.82	0.74	20.0	60	35	
315L	125	987	214	7.0	2.4	2.2	2.7	94.4	94.4	91.2	0.86	0.82	0.74	22.0	60	35	
315L	132	987	226	7.0	2.4	2.2	2.7	94.6	94.6	91.2	0.86	0.82	0.74	23.5	60	35	

Shipping Dimensions :

Frame	Nett Wt, Kg	Gross Wt, Kg
63	5	7
71	7	9
80	13	15
90S	18	20
90L	20	23
100L	28	34
112M	47	62
132S	57	82
132M	72	95
160M	115	140
160L	145	175
180M	155	205
180L	175	225
200L	235	290
225S	310	370
225M	325	385
250M	470	565
280S	600	720
280M	735	850
315S	1030	1200
315M	1090	1250
315L	1150	1275

Bearing Sizes :

Frame	Bearing DE	Bearing NDE
63	6201 2RS	6201 2RS
71	6202 2RS	6202 2RS
80	6204 2RS	6204 2RS
90SL	6205 2RS	6205 2RS
100L	6206 2RS	6206 2RS
112M	6306 2RS	6206 2RS
132SM	6308 2RS	6208 2RS
160ML	6309 2RS	6309 2RS
180ML	6310 ZZ	6310 ZZ
200L	6312 ZZ	6212 ZZ
225SM	6313 ZZ	6313 ZZ
250M - 2P	6215 C3	6215 C3
250M - 4,6,8P	6314 C3	6314 C3
280SM - 2P	6215 C3	6215 C3
280SM - 4,6,8P	6317 C3	6317 C3
315SML - 2P	6315 C3	6315 C3
315SML - 4,6,8P	6319 C3	6319 C3

Note : All performance figures are at rated supply conditions and are subject to tolerance as per applicable standards.

Product upgradation is a continuous process. Hence, data in this catalogue is subject to change without prior notice. For the latest information, please get in touch with our Sales Offices.

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